This column opens a new promotional avenue for SubLOGIC, a small engineering-oriented company dedicated to producing the finest in flight simulation software. Please tune in to "Flight Notes" each month for the latest on SubLOGIC software, new product announcements, and product add-on information.

The 1.5 millionth copy of **Flight Simulator** will ship this fall. Flight Simulator has been our best-selling program by far over the years. So much innovative technology was originally invested in the program, it's no wonder that Flight Simulator is still the premier "showcase" software piece for Commodore 64/128 computers. Our long-running support of **Scenery Disk** options continues to grow; the current "Western European Tour" Scenery Disk, so beautiful to fly, is an example of the continued evolution of scenery in both theme and execution. Watch for new Scenery Disk announcements at the start of the new year.

The Up Periscope!/SubLOGIC Connection - ActionSoft Corporation was originally set up as a separate marketing arm for SubLOGIC-engineered, quickly-produced, low-cost simulations specifically designed for mass market channels. We soon discovered that SubLOGIC engineering is incapable of cutting corners when it comes to developing new products. Instead, they spent many months turning Up Periscope! into the ultimate submarine simulation with the help of Captain John Patten, USN (Ret.). The development of Up Periscope! ended in a polished program with strategic realism that will provide years of unparalleled pleasure. Though I try to avoid hype in this column, I must say in all sincerity that Up Periscope! is a steal at only $29.95. It's far and away the leader in submarine simulations, a fun simulation with true general appeal. Pick it up (if you haven't already done so). You'll love it.

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Wrapping Up Europe - The deadline for entering our "Find Red Square" contest was November 15th, 1988. Current plans (subject to change) call for a mid-December drawing to determine the contest winner. This contest, requiring you to use **Flight Simulator** or **Jet** to locate Red Square on our new **"Western European Tour" Scenery Disk**, was as much fun for us as it was for you! Watch for our next Scenery Disk promo contest coming early next year.

The success of **Stealth Mission** has really surprised us. In an increasingly cost-conscious consumer market, our engineering staff decided to hang the expense and create the ultimate simulation in terms of program polish and strategic depth. One example of their attention to detail is the way in which enemy sensing range varies depending on your aircraft type. Your ability to choose between flying an F-19 Stealth fighter, the experimental forward-swept wing X-29, or a Navy F-14 Tomcat provides a first-hand perspective on the way mission challenges can vary depending on your stealth capabilities.

Stealth Mission's polish is like nothing you've ever experienced before. One much-appreciated new feature is the ability to pause aircraft motion while you adjust your strategies (such as weapon/target selection) or system settings. For fumble-fingered computer pilots like myself, this feature lets me concentrate more on my strategies rather than on perfecting my sensory-motor skills. Autopilot landing and airborne refueling systems eliminate much of the difficulties and frustrations of flying. Stealth Mission is unlike any other simulation I've ever flown. Enjoy!

Its Back! Not available since early 1984, the classic **Night Mission Pinball** will be back on store shelves once again by the time you read this. Priced at only $29.95, now everyone can afford to add this classic to their software collection. Look for the box labelled "WARNING! Use of this product may be addicting!" We recommend that you take this warning seriously.

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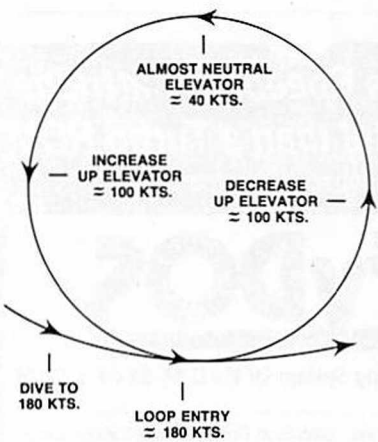
Better Loops with Flight Simulator - While the "Flight Physics" manual description is adequate for most, we get enough calls from frustrated computer pilots unable to perform a loop to warrant the following additional instructions. For those already successful at looping the aircraft, these instructions should help make your loops rounder and more satisfying.

After diving to the suggested looping airspeed (180 knots will do), add as much up elevator as possible without stalling the aircraft. As you pitch up and airspeed slows you will have to reduce some of this elevator pressure. Many people leave the elevator setting on high and become frustrated when the aircraft stalls before pointing straight up. In a perfectly round loop your elevator should be almost all the way back to neutral by the time you're upside down. Since airspeed is very slow at the top of the loop (and the portion of the circle traveled is small), your pitch attitude change should be gracefully slow as well. Start adding up elevator pressure again as airspeed increases. By the time you get to the bottom of the loop, the up elevator setting should be where it was when you began the maneuver and your airspeed should be adequate to begin another loop.



In summary, up elevator setting varies throughout the loop. The faster your airspeed, the greater the up elevator pressure. Flight Simulator is the only simulation on the market that accurately portrays the flight characteristics of a light aircraft when performing this maneuver. In reality there's little room for error in the amount of up elevator you can use, and meeting the challenge of performing a perfectly round loop can be a very satisfying experience. You may even find yourself more knowledgable about loops than many non-aerobatic pilots who fly real airplanes. Happy trails!

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Exploring Japan with Jet - Now that Japan Scenery Disk is included with Jet, we'd like to offer some suggestions for exploring the Japanese countryside from the cockpit of your F-16.

First, a close-up view of Tokyo. Take off from Hyakuri Airport (North 18542, East 32874) and turn to a heading of 187 degrees. This flight path takes you into the peninsula forming the right boundary of Tokyo Bay (see Tokyo area chart). At Mach 1 this heading should bring you to New Tokyo International Airport at Narita in about five minutes. Turn right to a heading of 270 degrees at Narita to put yourself on a direct course to Tokyo. When Tokyo comes into view, throttle back to 45% and drop altitude to 1,000 feet to explore the city. Highlights including Tokyo Tower and the Emperor's Palace will be clearly visible, with many high-rise skyscrapers to the north. Head for Tokyo International Airport (Haneda) in the southwest part of the city. Make your approach and land at Tokyo International. Keep your airspeed low and don't overshoot the runway or you'll end up in Tokyo Bay! Next month - another Japanese adventure!

Submarine Action in the Pacific - Unparalleled action and realism have rocketed Up Periscope! to the top of the software charts! You command a World War II fleet class submarine. Start with a shakedown cruise out of the Navy's New London shipyards, then re-enact fourteen different historic patrols covering all Pacific theatres of war. Relive the famous final patrol of USS Tang when Commander Dick O'Kane was sunk by one of his own torpedoes. Intercept convoys in the Formosa Straight with USS Barb. Evade depth charge attacks, or go hunting on your own. Mastering the complexities of command are difficult but very rewarding.

Top Selling Scenery Disks This Month:

($24.95 each, for use with Flight Simulator II, Stealth Mission, and Jet)

1. **"Western European Tour" Scenery Disk**
2. **Scenery Disk # 7 (U.S. Eastern Seaboard)**
3. **Scenery Disk # 3 (U.S. South Pacific)**
4. **Scenery Disk # 11 (U.S. North Eastern Border)**
5. **San Francisco Scenery Disk**

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Exploring Japan with Jet (Part 2)- SubLOGIC's Jet program now includes a free Japan Scenery Disk. Last month we took you on a guided F-16 tour of Tokyo.

This month we'll follow the Japanese coastline on a cross-country flight from Tokyo to Osaka. Starting from Tokyo International Airport (coordinates North 18201, East 32787), take off and turn to a heading of 220 degrees until you reach the coast. Turn to a heading of 235 degrees and fly for about twelve minutes at five thousand feet altitude until you can see Hamamatsu Airport below you (see Tokyo area chart). Turn right again to a heading of 305 degrees and fly to Nagoya, another highly detailed city. At Nagoya, turn left to a 240-degree heading that will take you straight to Osaka. When you find yourself flying over Osakajo Castle, begin your descent for a landing at Osaka International. This entire flight takes only twenty five minutes at Mach 1.4.

ThunderChopper Missions - While ThunderChopper puts you at the controls of a heavily armed attack helicopter, you'll have to complete a set of introductory flight/ rescue/ combat training missions before you can fly into battle.

In the first combat mission, Armed Escort, you must guide your battle-weary ground troops to safety through enemy territory. Their only way out is through a valley guarded by heavily-armed guerilla fighters. Its up to you to locate and destroy any enemy units that attack your men along the way. Deadly accurate aim is essential; there's no way to rearm in combat. Get yourself and your troops back safely to receive a mission evaluation and performance rating. (Coming next month - Rescue at Sea)

Top Selling Scenery Disks This Month:

($24.95 each, for use with Flight Simulator II, Stealth Mission and Jet)

1. **"Western European Tour" Scenery Disk**
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3. **Scenery Disk # 11 (U.S. North Eastern Border)**
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Exploring Stealth Mission

Several man-years went into developing Stealth Mission for the Commodore 64/128 computers. The program incorporates many new design concepts. Target-hit detection, for example, is embedded within the Stealth Mission scenery structure itself. This lets the software designer easily assign a different score value to each potential target, including negative scores for destroying targets that should be avoided (hospitals, for example). Programmable scoring is just one unique feature of this third-generation flight simulator.

Stealth Mission Reviews

While we don't like to brag, we certainly can't argue with Stealth Mission reviews like these. **Ahoy** magazine (7/88) writes that this simulator "pushes the C64/128 envelope beyond the blue horizon, to a whole new level of animation and frame rates... absolutely incredible." Stealth Mission "... sets new standards at the top of the C64 flight simulator heap," according to **Info** (5-6/88). **Commodore** (2/89) calls Stealth Mission's combination of strategy and action "truly superior to others. Only a flight simulation this good could come from SubLOGIC." Stealth Mission, winner of the 1988 Consumer Electronics Show "Best Strategy Game" Software Showcase Award. What more can we say?

Top Selling Commodore 64/128 Products This Month:

1. **Flight Simulator II ($49.95)**
2. **Stealth Mission ($49.95)**
3. **Jet ($39.95)**
4. **"Western European Tour" Scenery Disk ($24.95)**
5. **San Francisco Scenery Disk ($24.95)**
6. **Scenery Disk # 3 - U.S. South Pacific ($19.95)**
7. **Scenery Disk # 7 - U.S. Eastern Seaboard ($24.95))**
8. **Scenery Disk # 4 - U.S. North West ($19.95)**

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Special Through April 28!
$5.00 Off Stealth Mission

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"Hawaiian Odyssey" Scenery Disk - Yes, our new "Hawaiian Odyssey" Scenery Disk puts Flight Simulator, Stealth Mission and Jet pilots in a tropical paradise! The islands contain many wonderful sights; one of them also contains a mysterious gateway to a fantasyland unlike anything you've ever seen!

The natural beauty of Hawaii adds up to one great Scenery Disk. Our design team did an excellent job of recreating downtown Honolulu and Pearl Harbor on the island of Oahu. Flying into the crater of Mauna Loa, one of Hawaii's most volatile volcanoes, is exhilarating and perfectly safe. The 400-mile long Hawaiian Island chain's distinctive visual details, airports and radio nav-aids make it a perfect complement to all SubLOGIC flight simulation programs.

"Hawaiian Odyssey" also offers the very first structured SubLOGIC Scenery Disk adventure! A number of clues are scattered about the islands. They can be located only by exploring each island at low altitude (and what better way can you think of to pass the time?). These clues will guide you to a very surprising reward; don't let anyone tell you about it ahead of time!

Top Selling Commodore 64/128 Products This Month:

1. Stealth Mission ($49.95)
2. Flight Simulator II ($49.95)
3. "Western European Tour" Scenery Disk ($24.95)
4. Jet ($39.95)
5. San Francisco Scenery Disk ($24.95)
6. Scenery Disk # 7 - U.S. Eastern Seaboard ($24.95)
7. Scenery Disk # 3 - U.S. South Pacific ($19.95)
8. Scenery Disk # 4 - U.S. Northwest ($19.95)

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"Hawaiian Odyssey" Scenery Adventure - Locating the secret jewel of the goddess Pele from the cockpit of your single-engine aircraft (or high-performance jet) isn't just as simple as spotting an object from a distance and then flying toward it. No, you must find and follow an intricate set of clues scattered about the Hawaiian Islands that, with luck, will guide you to your goal.

As with other mythical quests, only the proper approach can put you on the right track to finding the hidden jewel. Even if you can determine it's location, the jewel is only visible under a strictly-defined set of conditions. Make a mistake during your final approach and you may get lost so completely that you'll never be able to find your way back!

"Hawaiian Odyssey" Scenery Adventure disk can be used with any SubLOGIC flight simulation program, including Flight Simulator II, Stealth Mission and Jet. The disk covers the entire island chain in such incredible detail you can almost feel the heat from the volcanic crater at Mauna Loa! "Hawaiian Odyssey" Scenery Adventure from SubLOGIC; you've never seen anything like it!

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